

1 1. Concrete construction apparatus comprising:

2 a scraping blade for scraping the top of newly poured
3 wet concrete mix to provide a flat finish surface;

4 a wheeled vehicle for propelling the scraping blade;

5 a boom coupled from the vehicle to the scraping blade
6 for guiding the movement of the scraping blade while concurrently
7 imparting a vibratory motion thereto, in order to assist in the
8 settling and leveling of the surface portion of the concrete;

9 a perforated drum adapted to roll along the flattened
10 surface of the concrete, behind the scraping blade; and

11 a boom extension coupled from the boom to the
12 perforated drum for rollingly propelling the perforated drum
13 while imparting at least a portion of the same vibratory motion
14 thereto, the perforations in the drum being large enough and the
15 weight of the drum being great enough that small portions of the
16 wet concrete momentarily enter into the drum perforations while
17 the drum surfaces between perforations serve to provide a
18 downward force on pebbles within the concrete mix that might
otherwise rise to the finish surface.

1 2. A method for providing a smooth flat finish surface
2 on newly poured wet concrete mix, comprising the steps of:

3 propelling a scraping blade over the top of the newly
4 poured wet concrete mix while concurrently imparting a vibratory
5 motion to the scraping blade in order to assist in the settling
6 and leveling of the surface portion of the concrete;

7 selecting a perforated drum having perforations large
8 enough so that small portions of wet concrete mix may enter into
9 the drum perforations; and

10 rotatably pulling the perforated drum behind the
11 scraping blade along the flattened surface of the concrete while
12 concurrently imparting at least a portion of the same vibratory
13 motion to the drum so that the weight of the drum causes the drum
14 surfaces between the perforations to provide a downward force on
15 pebbles within the concrete mix that might otherwise rise to and
alter the finish surface.